

WHAT IS CLAIMED IS:

1. A color conversion definition coupling
apparatus for creating a coupling color conversion
5 definition defining an association of coordinates of a
first device color space depending on a first device with
coordinates of a second device color space depending on a
second device in such a manner that coordinates of a device
color space depending on a device mediating between an
10 image and image data is associated with coordinates of a
non-dependence color space independent of a device, and a
first color conversion definition and a second color
conversion definition, which define the first device and
the second device, respectively, are coupled with one
15 another,

wherein each of the first color conversion
definition and the second color conversion definition has a
space conversion section defining an association between
the coordinates of the device color space on a color
20 reproduction area representative of colors capable of being
reproduced by the device and the coordinates of the non-
dependence color space, and an area conversion section
defining on the non-dependence color space an association
between coordinates of the color reproduction area and
25 coordinates of a coupling area independent of the device,
and

wherein the conversion definition coupling

apparatus comprises:

an area decision section that decides whether two
the coupling areas for the first color conversion
definition and the second color conversion definition are
5 identical; and

a definition coupling section that creates the
coupling color conversion definition in such a manner that
when the area decision section decides that two the
coupling areas are identical, associations defined by the
10 space conversion section for the first color conversion
definition, the area conversion section for the first color
conversion definition, the area conversion section for the
second color conversion definition, and the space
conversion section for the second color conversion
15 definition are sequentially coupled, and when the area
decision section decides that two the coupling areas are
not identical, associations defined by the space conversion
section for the first color conversion definition and the
space conversion section for the second color conversion
20 definition are coupled with one another in accordance with
a conversion algorithm for converting coordinates from one
to another of two the color reproduction areas.

2. A color conversion definition coupling program
25 storage medium storing a color conversion definition
coupling program which causes a computer to operate as a
color conversion definition coupling apparatus, when the

color conversion definition coupling program is incorporated into the computer and is executed, the color conversion definition coupling apparatus that creates a coupling color conversion definition defining an

5 association of coordinates of a first device color space depending on a first device with coordinates of a second device color space depending on a second device in such a manner that coordinates of a device color space depending on a device mediating between an image and image data is

10 associated with coordinates of a non-dependence color space independent of a device, and a first color conversion definition and a second color conversion definition, which define the first device and the second device, respectively, are coupled with one another,

15 wherein each of the first color conversion definition and the second color conversion definition has a space conversion section defining an association between the coordinates of the device color space on a color reproduction area representative of colors capable of being

20 reproduced by the device and the coordinates of the non-dependence color space, and an area conversion section defining on the non-dependence color space an association between coordinates of the color reproduction area and coordinates of a coupling area independent of the device,

25 and

wherein the conversion definition coupling apparatus comprises:

an area decision section that decides whether two the coupling areas for the first color conversion definition and the second color conversion definition are identical; and

5 a definition coupling section that creates the coupling color conversion definition in such a manner that when the area decision section decides that two the coupling areas are identical, associations defined by the space conversion section for the first color conversion
10 definition, the area conversion section for the first color conversion definition, the area conversion section for the second color conversion definition, and the space conversion section for the second color conversion definition are sequentially coupled, and when the area
15 decision section decides that two the coupling areas are not identical, associations defined by the space conversion section for the first color conversion definition and the space conversion section for the second color conversion definition are coupled with one another in accordance with
20 a conversion algorithm for converting coordinates from one to another of two the color reproduction areas.